





How to change: VW Polo 9N front suspension strut – replacement guide

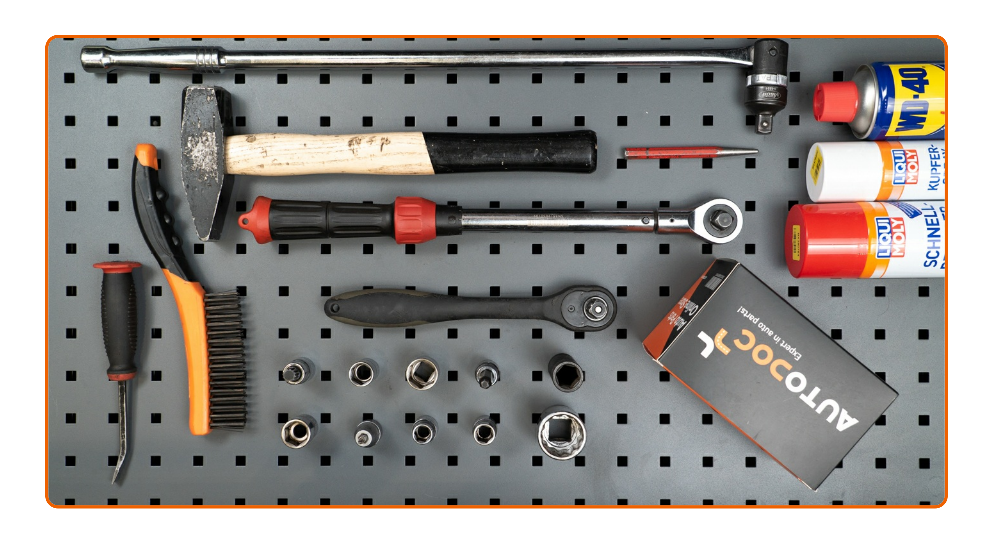
 VIDEO TUTORIAL

Important!

This replacement procedure can be used for:
VW CADDY III Box (2KA, 2KH, 2CA, 2CH) 1.4, VW CADDY III Estate (2KB, 2KJ, 2CB, 2CJ) 1.4, VW GOLF PLUS (5M1, 521) 1.4 16V, VW GOLF V (1K1) 1.4 16V, VW GOLF V Variant (1K5) 1.4, VW GOLF VI Variant (AJ5) 1.4, VW POLO (9N_) 1.4 16V

The steps may slightly vary depending on the car design.

REPLACEMENT: SUSPENSION STRUT – VW POLO 9N. LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Drive socket # 12
- Drive socket # 13
- Drive socket # 16
- Drive socket # 18
- Drive socket # 21
- XZN socket bit # 12
- 12-point socket # 30
- HEX bit no.H6.
- Shock absorber socket
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Pin punch
- Tap wrench
- Hammer
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Fender cover
- Wheel chock

Replacement: suspension strut – VW Polo 9N. AUTODOC recommends:

- Both shock struts of the front suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right shock struts of the front suspension.
- Please note: all work on the car – VW Polo 9N – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1



Open the bonnet.

2



Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.

3



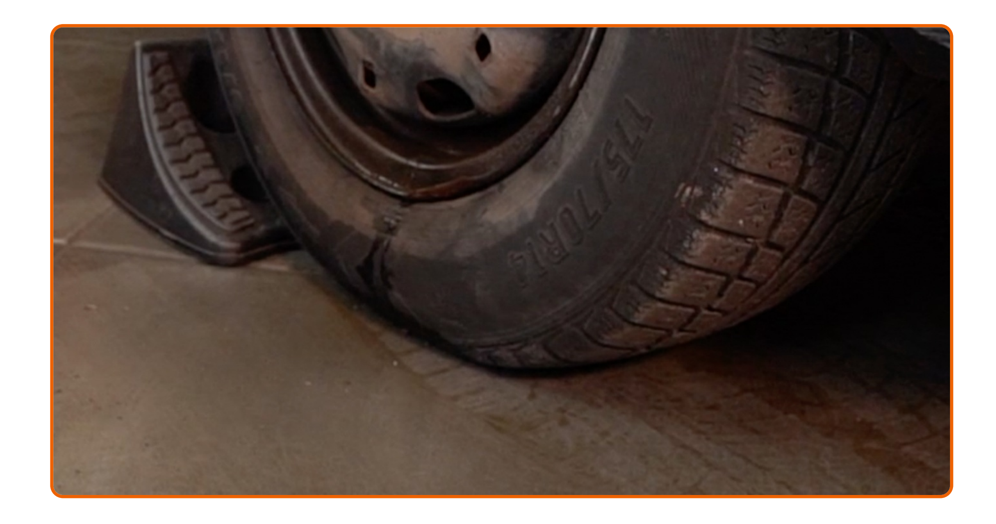
Clean the fasteners of the shock strut upper mount. Use WD-40 spray.

4



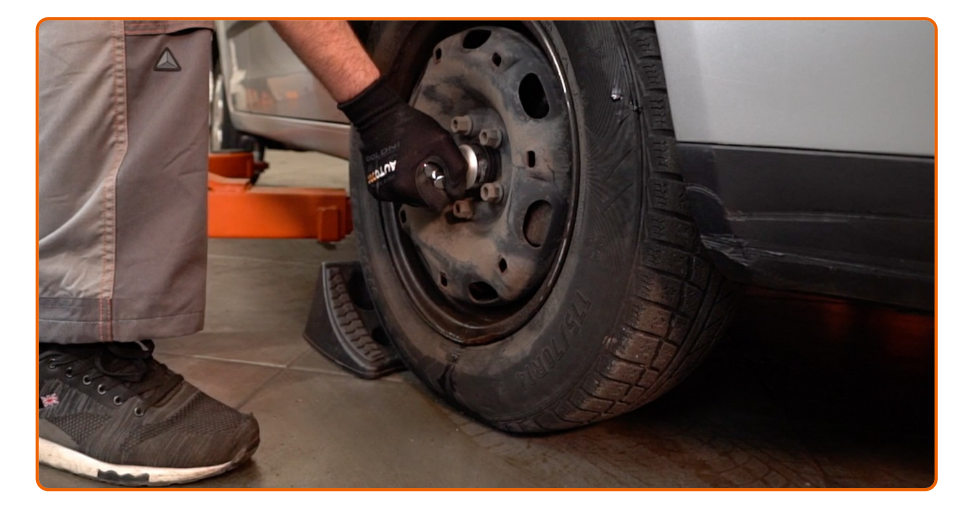
Loosen the upper fastener of the shock strut mount. Use a drive socket #13. Use a ratchet wrench.

5



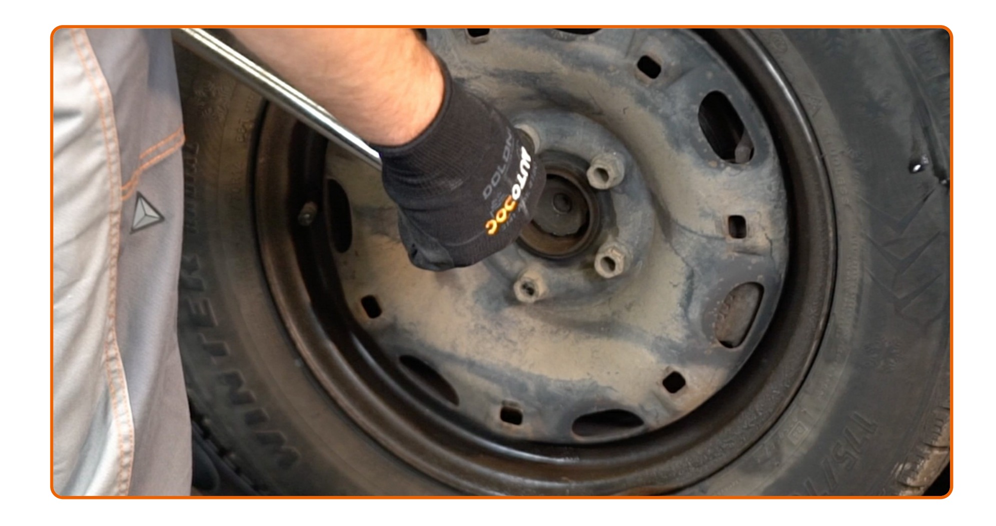
Secure the wheels with chocks.

6



Unscrew the hub lock nut. Use 12-point socket No.30. Use a tap wrench.

7



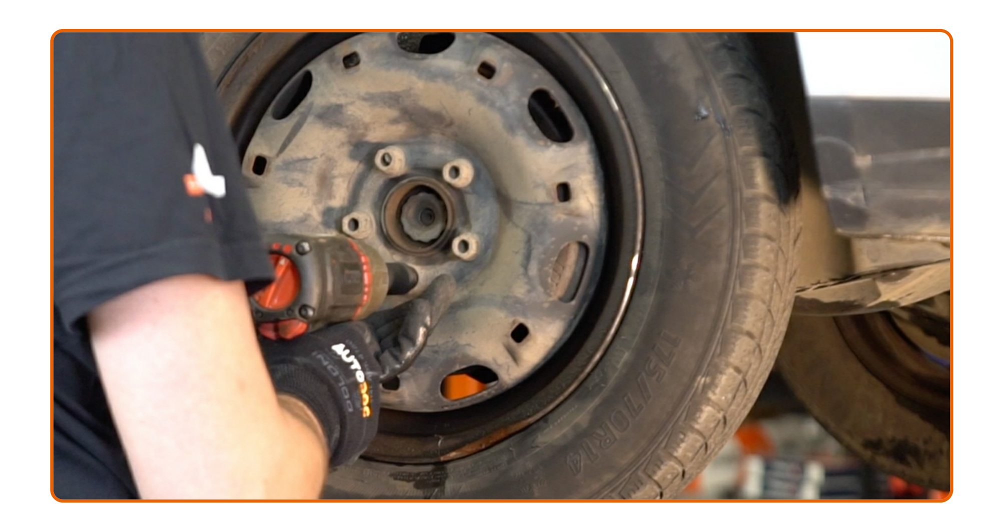
Loosen the wheel mounting bolts. Use wheel impact socket #17.

8



Raise the front of the car and secure on supports.

9



Unscrew the wheel bolts.

Replacement: suspension strut – VW Polo 9N. Tip:

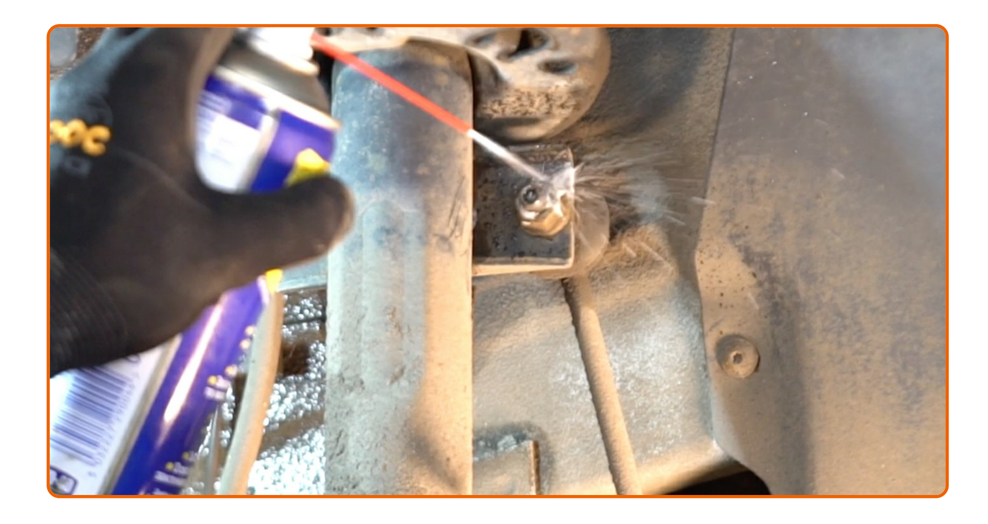
- To avoid injury, hold up the wheel when unscrewing the bolts.

10



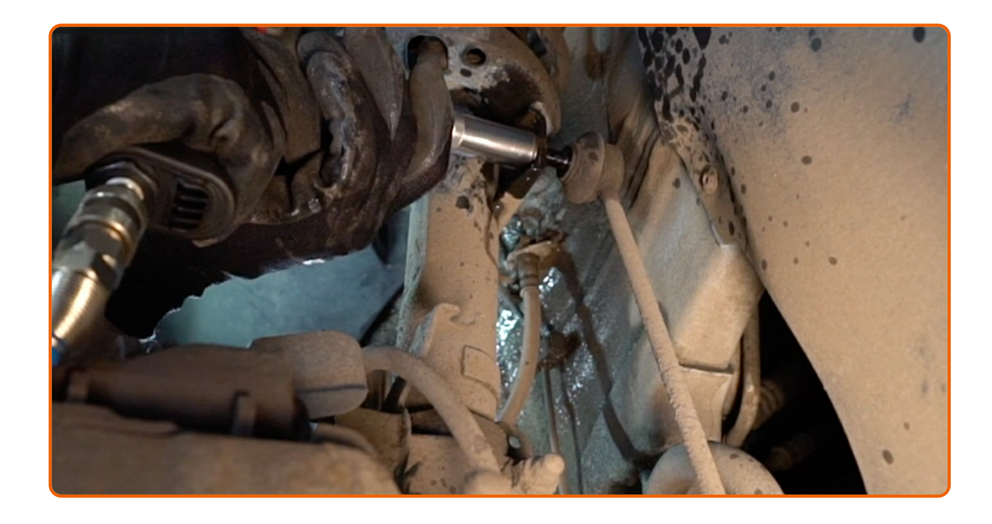
Remove the wheel.

11



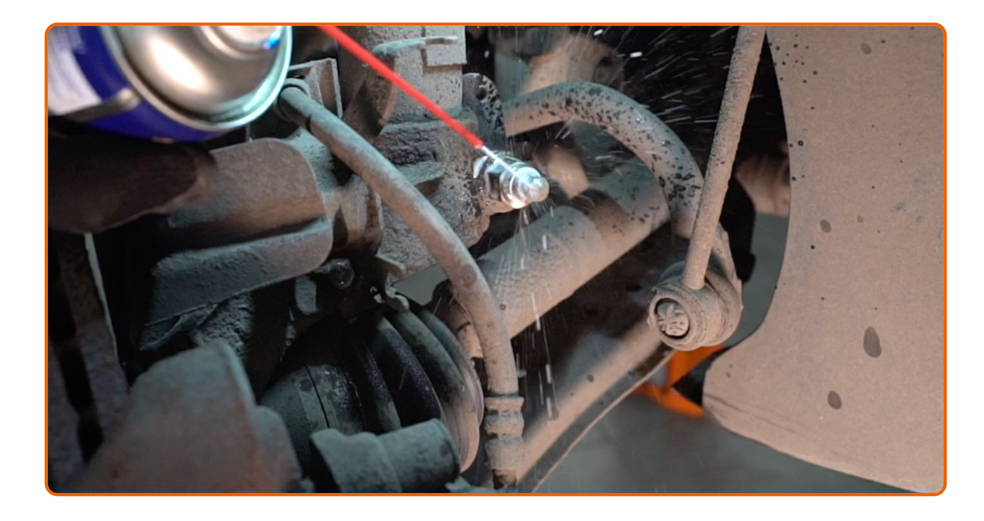
Clean the stabiliser link fasteners. Use a wire brush. Use WD-40 spray.

12



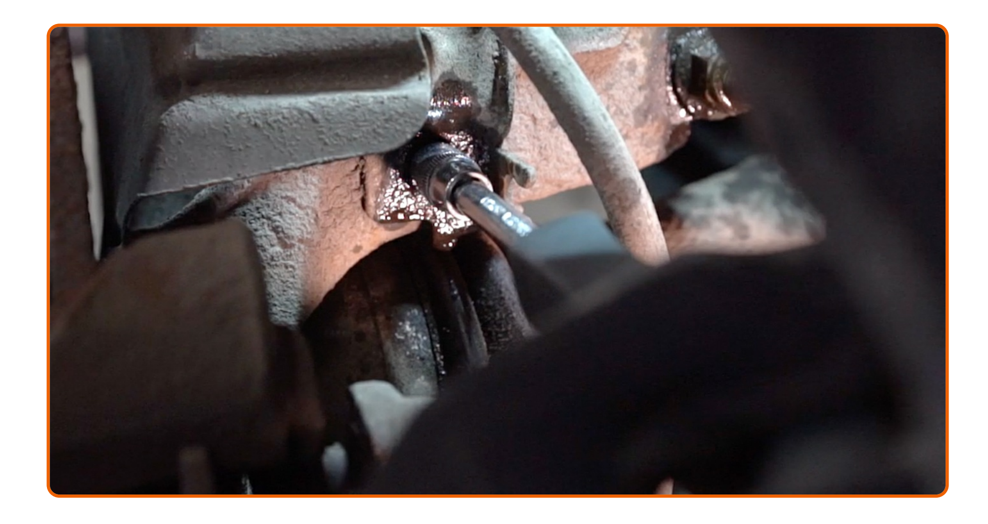
Unscrew the nut and remove the stabilizer rod from the shock strut. Use a drive socket #16. Use a ratchet wrench.

13



Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.

14



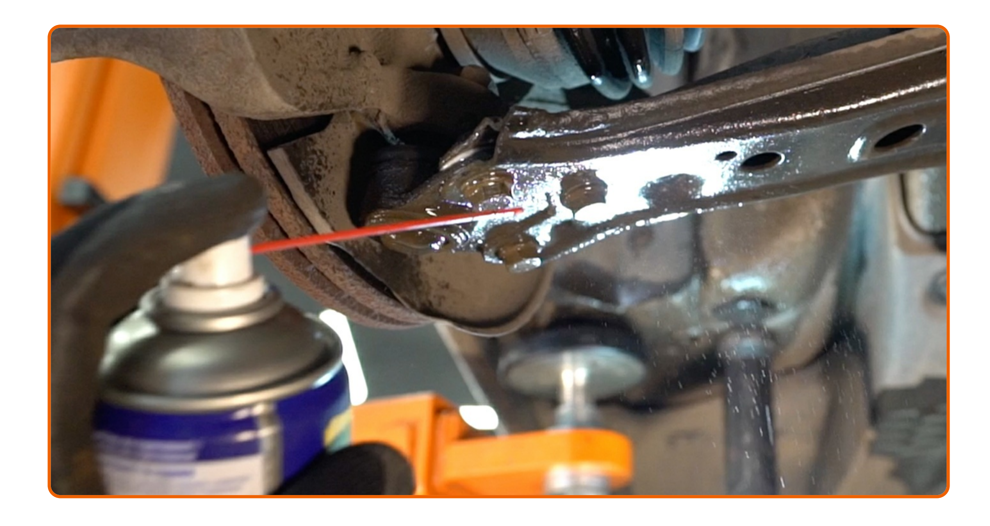
Detach the brake hose from the shock strut. Use a drive socket #12.

15



Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use XZN #12. Use a drive socket #18. Use a ratchet wrench. Use a tap wrench.

16



Clean all joints of the arm. Use a wire brush. Use WD-40 spray.

AUTODOC recommends:

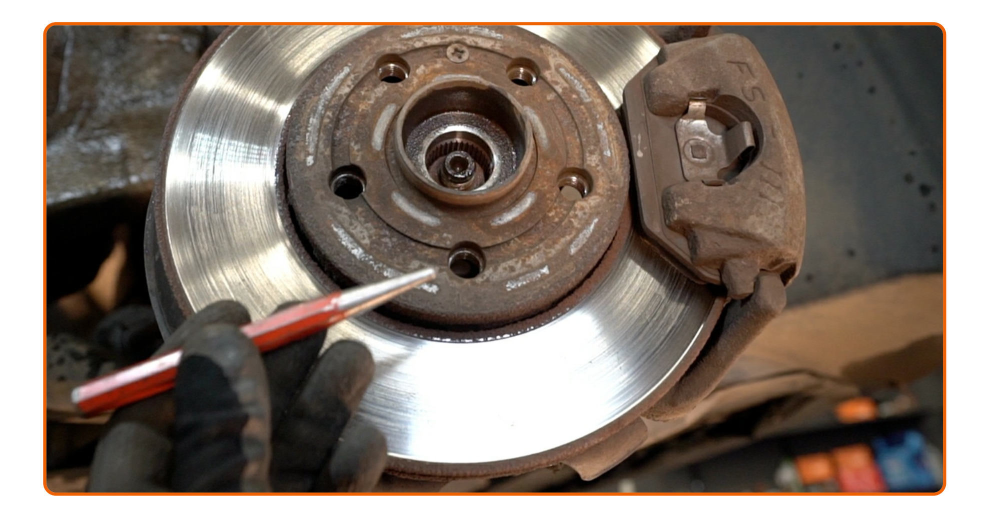
- Replacement: suspension strut – VW Polo 9N. After applying the spray, wait a few minutes.
- Wear protective goggles.

17



Unscrew the fastener connecting the ball joint to the suspension control arm. Use a drive socket #13. Use a tap wrench.

18



Disconnect the spherical joint from the arm.

19

Unscrew the fastener connecting the drive shaft to the wheel hub. Use 12-point socket No.30.

20

Remove the drive shaft. Use a pin punch. Use a hammer.

21



Prop up the steering knuckle. Use a hydraulic transmission jack.

22



Remove the fastening bolt.

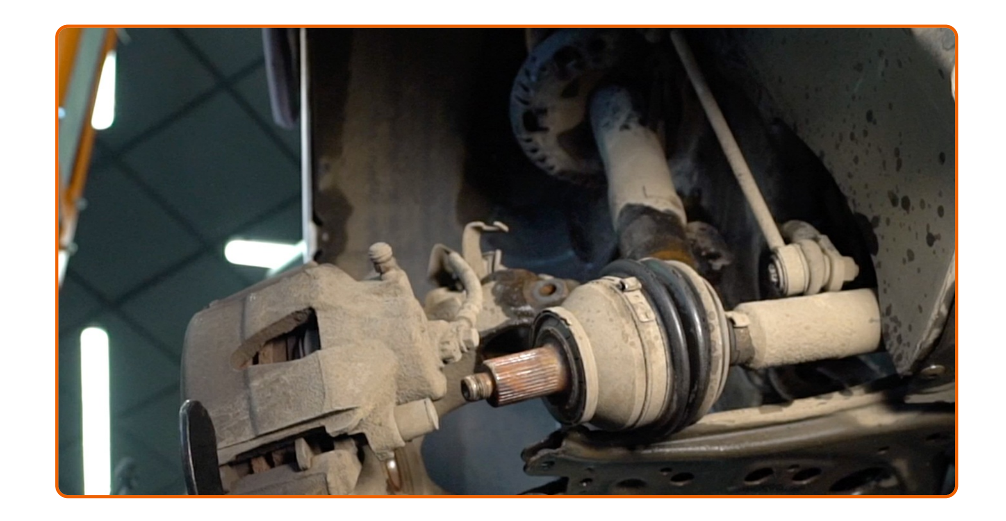
23



Release the lower fastener connecting the shock strut to the steering knuckle. Use a special drive socket to remove the shock absorber. Use a ratchet wrench.



24



Disconnect the steering knuckle from the shock absorber strut.

25



Unscrew the upper fastening of the shock absorber strut.



AUTODOC recommends:

- VW Polo 9N – To avoid injury, hold the suspension strut while unscrewing the fastening bolts.

26



Remove the suspension strut.

27

Set the shock absorber strut on the spring compressor tool.

Replacement: suspension strut – VW Polo 9N. Tip from AUTODOC experts:

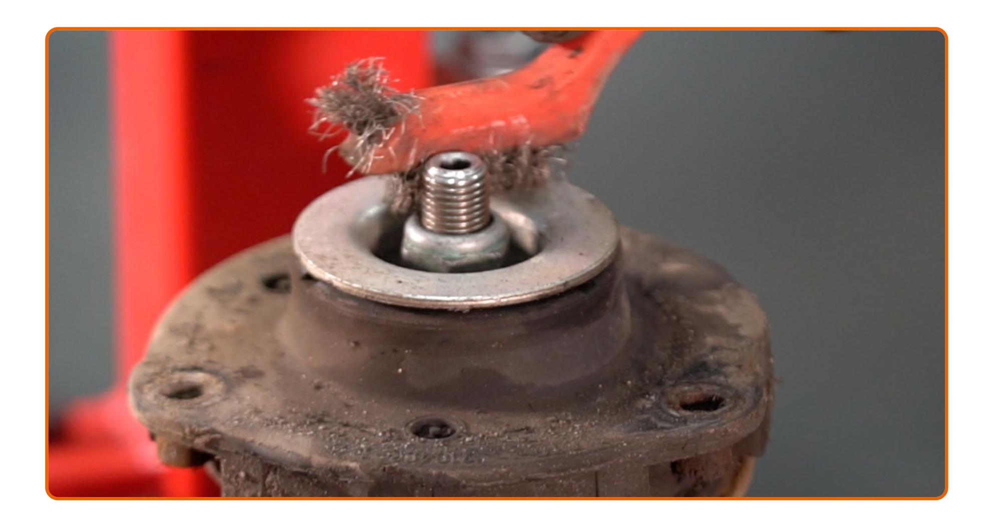
- Note that when using a spring compressor, spring coils need to be securely gripped, compressing the spring on the opposite sides.
- Ensure the correct position of the spring in the retainer.
- Make sure that the spring coils tightly entered the lock handles.

28



Compress the spring.

29



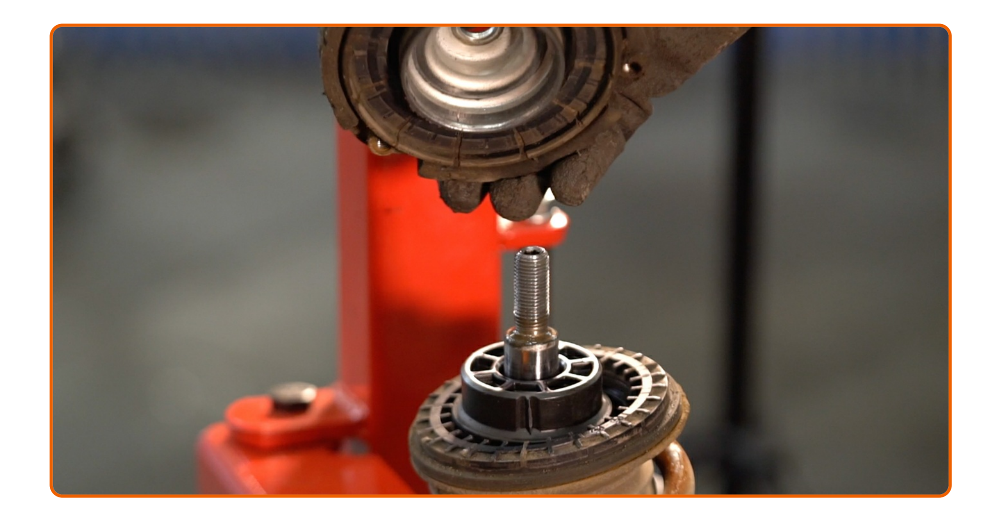
Treat the shock strut rod. Use a wire brush. Use WD-40 spray.

30



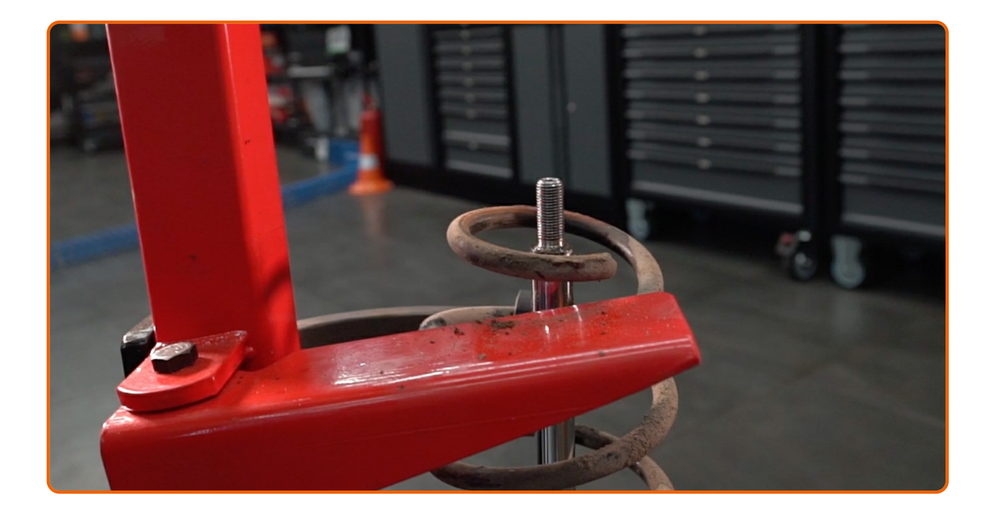
Remove the strut piston rod nut. Use a drive socket #21. Use HEX No.H6. Use a ratchet wrench.

31



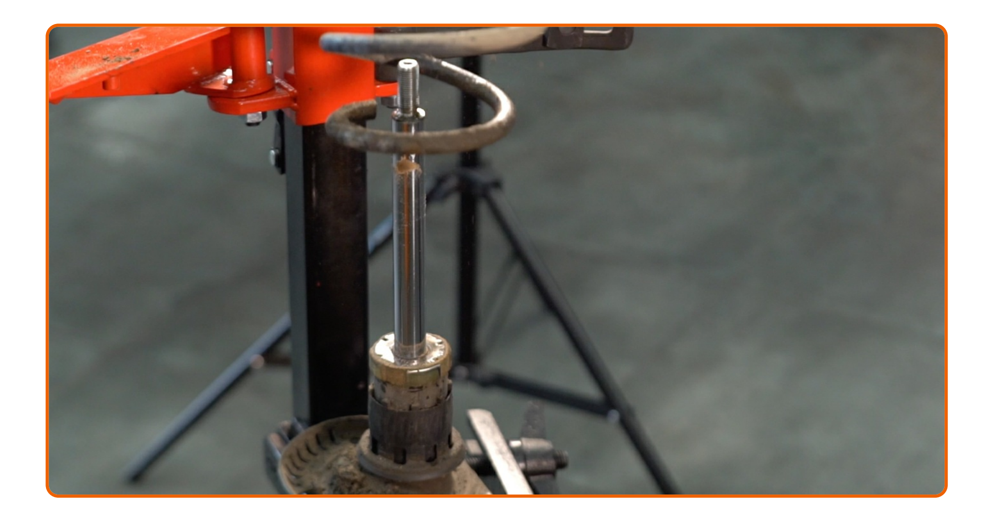
Remove the shock absorber mount, boot and bump stop.

32



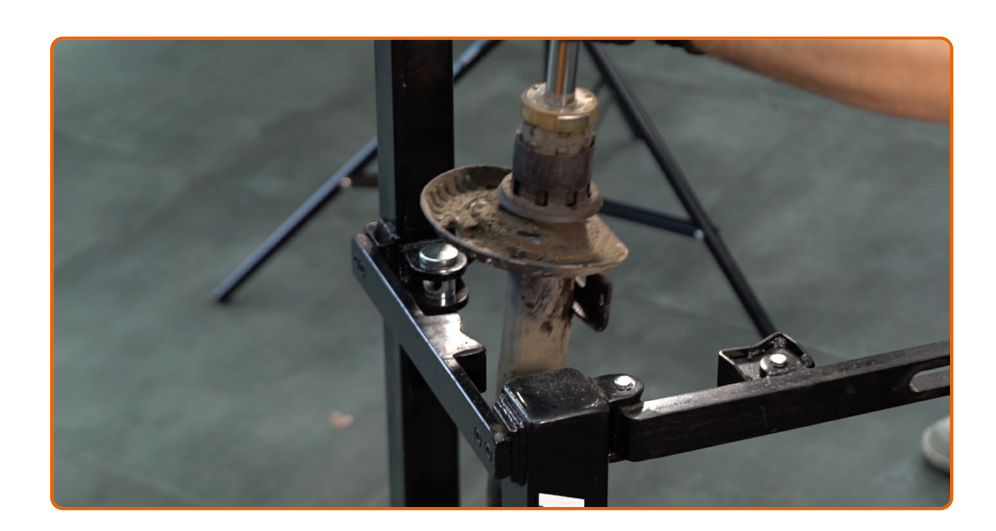
Release the coil spring.

33



Remove the spring.

34



Remove the old shock absorber from the hydraulic coil spring compressor.



AUTODOC recommends:

- Replacement: suspension strut – VW Polo 9N. Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.
- Before installing a new shock absorber you should pump it manually 3-5 times.

35



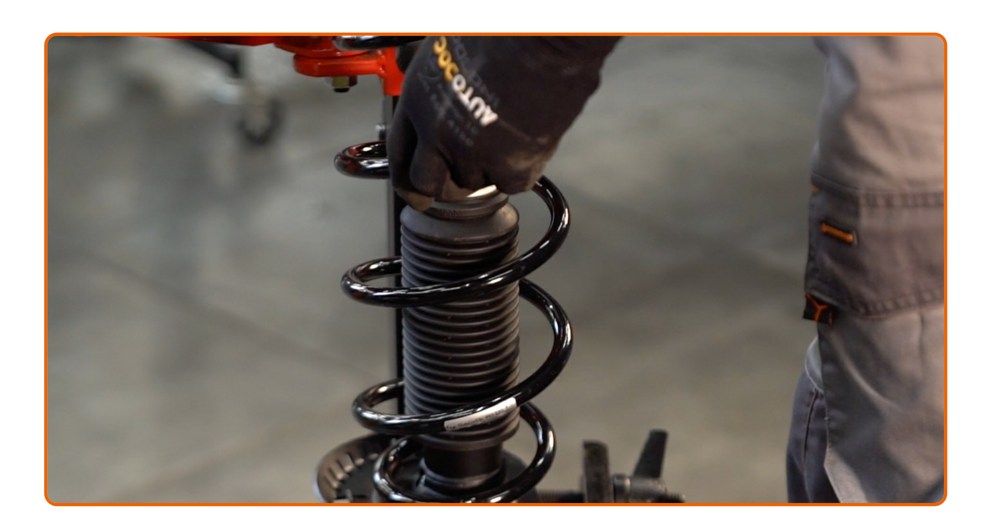
Install the new shock absorber on the hydraulic coil spring compressor.

36



Install the dust sleeve and the bump stop on the new shock absorber.

37



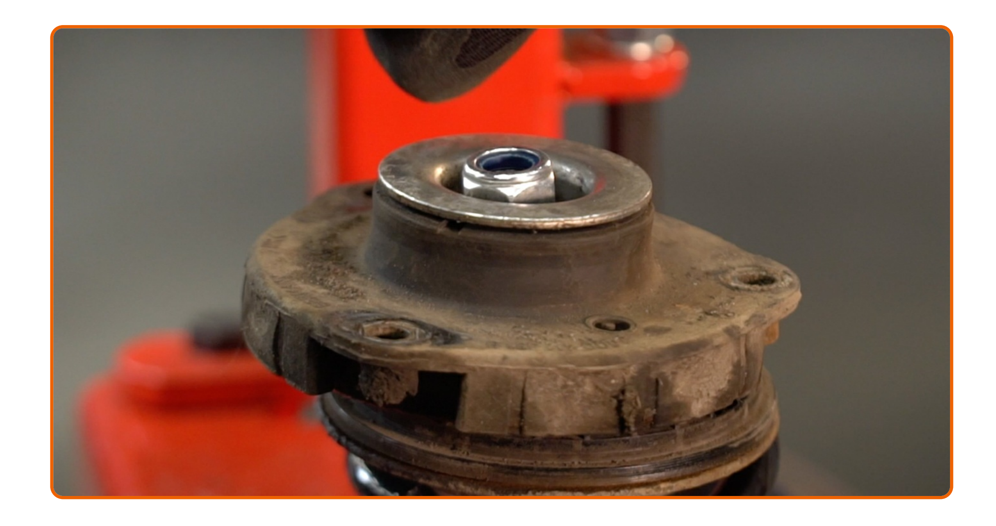
Install the spring on the shock absorber.

38



Compress the spring.

39



Install the upper strut mount and the strut mount bearing.

40

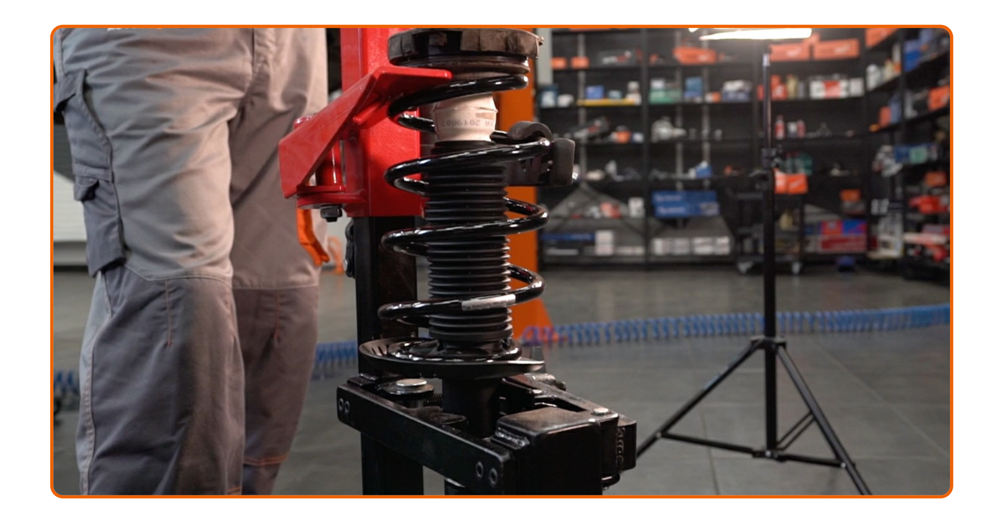


Tighten the shock strut piston rod nut. Use a drive socket #21. Use HEX No.H6. Use a torque wrench. Tighten it to 60 Nm torque.

Replacement: suspension strut – VW Polo 9N. AUTODOC experts recommend:

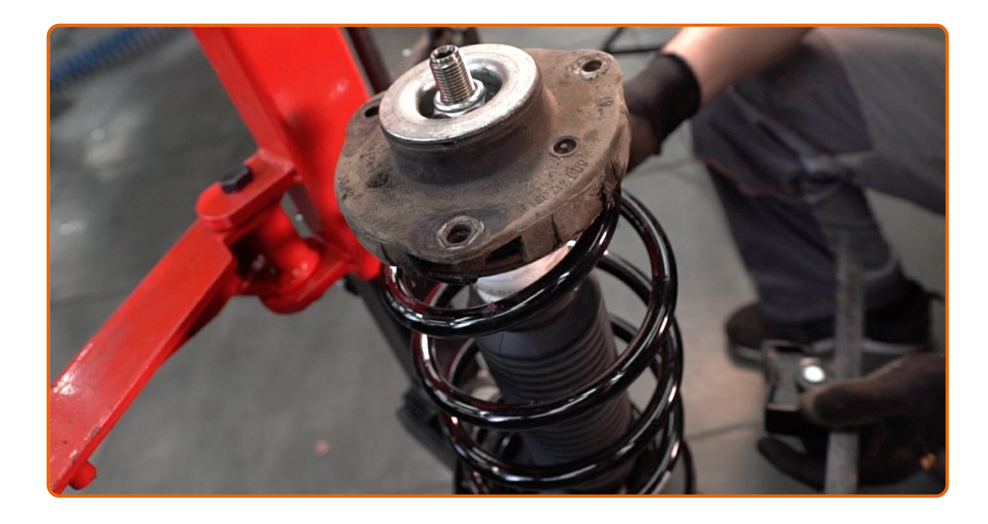
- Check to make sure the spring is positioned correctly. Avoid its misalignment.

41



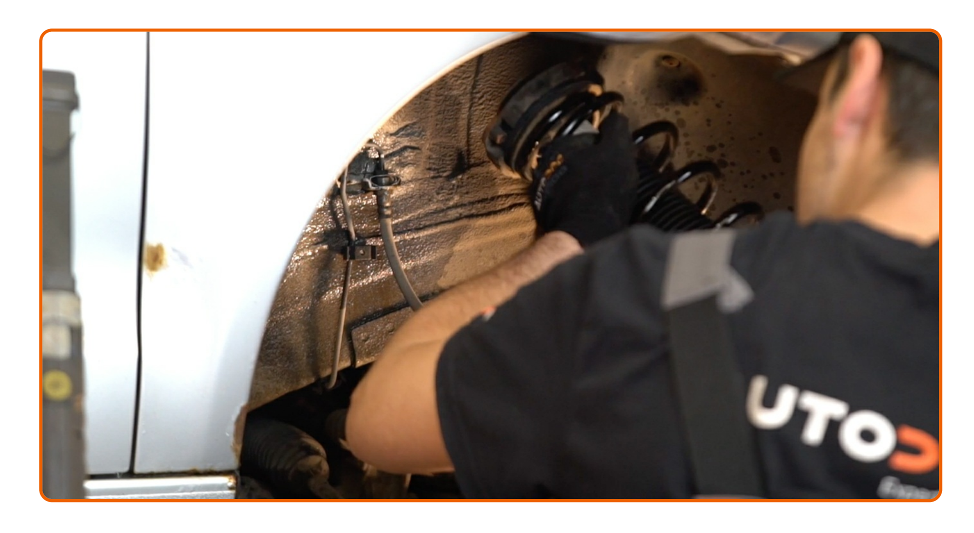
Decompress the spring.

42



Remove the assembled shock strut.

43



Install the shock strut into the wheel arch.

44



Secure the upper fasteners of the shock strut. Do not tighten it.

Replacement: suspension strut – VW Polo 9N. Tip from AUTODOC:

- To avoid injuries, hold the shock strut when screwing the fastening bolts in.

45



Treat the shock strut mounting seat on the steering knuckle. Use a wire brush. Use WD-40 spray.

46



Fix the shock absorber strut on the steering knuckle.

47



Install the fastening bolt. Use a drive socket #18.

48



Screw in the fastener that connects the shock strut to the steering knuckle. Use a drive socket #18. Use XZN #12. Use a ratchet wrench.

49



Clean the splines of the drive shaft CV joint. Use a wire brush. Use WD-40 spray.

50



Remove the support from under the steering knuckle.

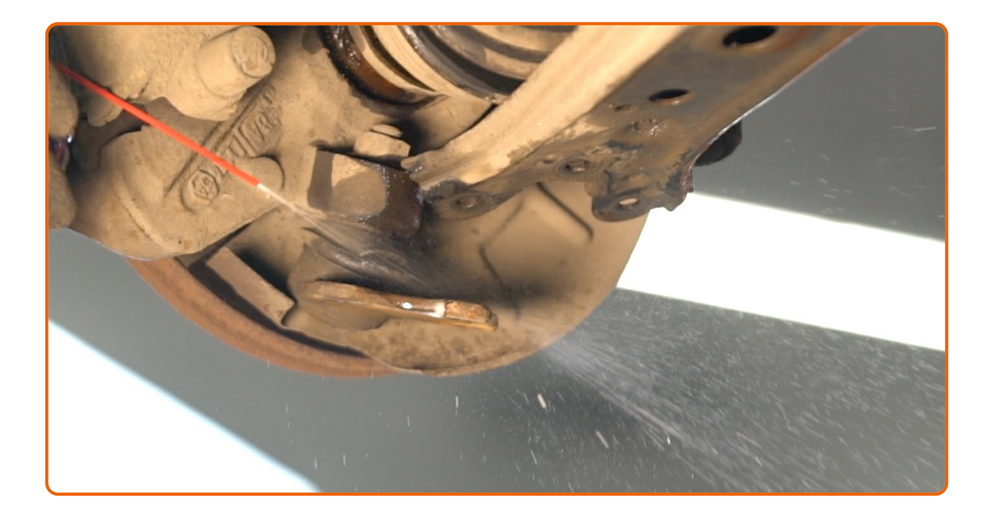
Replacement: suspension strut – VW Polo 9N. AUTODOC recommends:

- Lower the hydraulic transmission jack smoothly, without jerks, to avoid damaging assemblies and mechanisms.

51

Mount the drive shaft into the wheel hub.

52



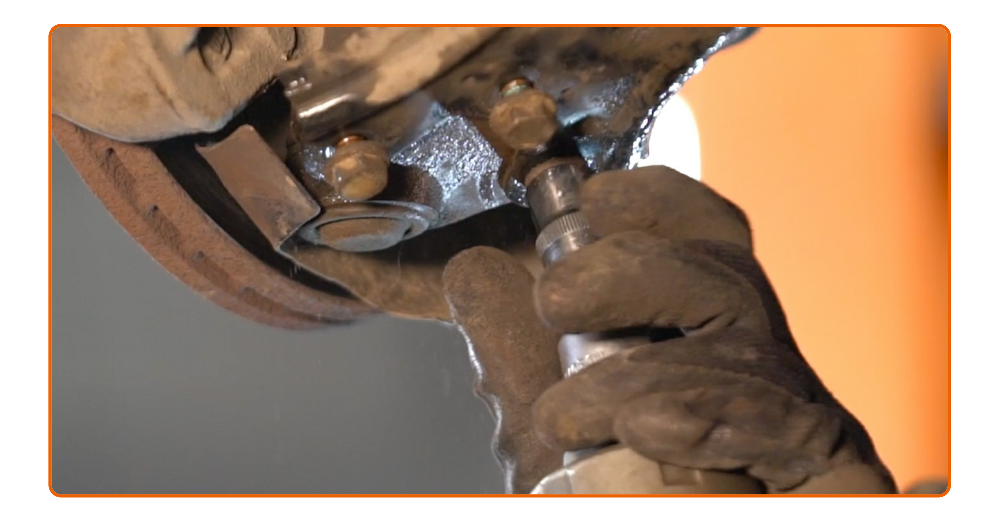
Clean the ball joint mounting seat. Use a wire brush. Use WD-40 spray.

53



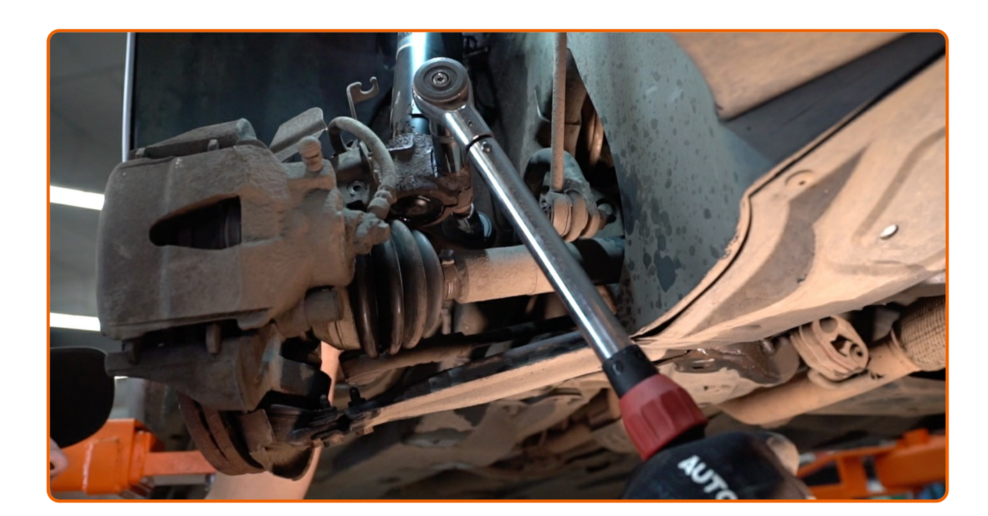
Attach the ball joint to the control arm.

54



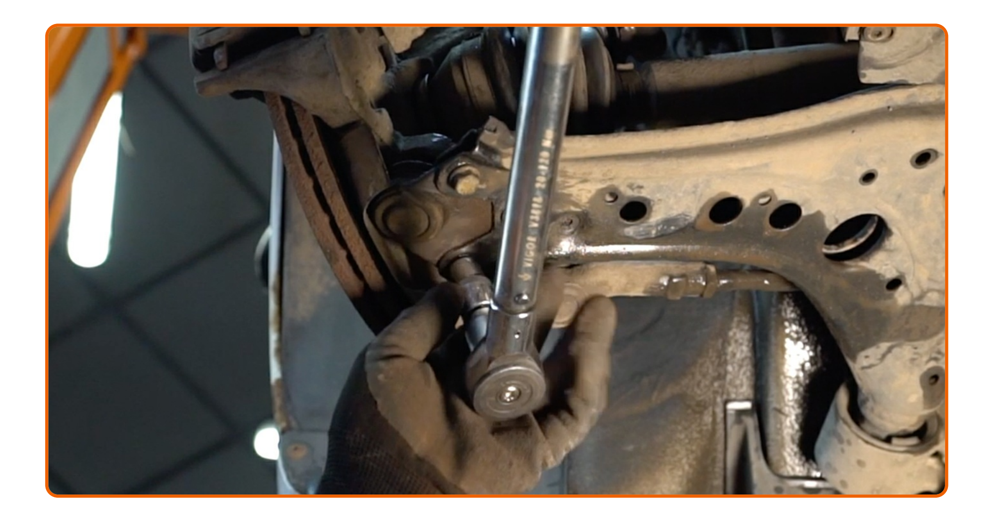
Screw the fasteners of the ball joint. Use a drive socket #13.

55



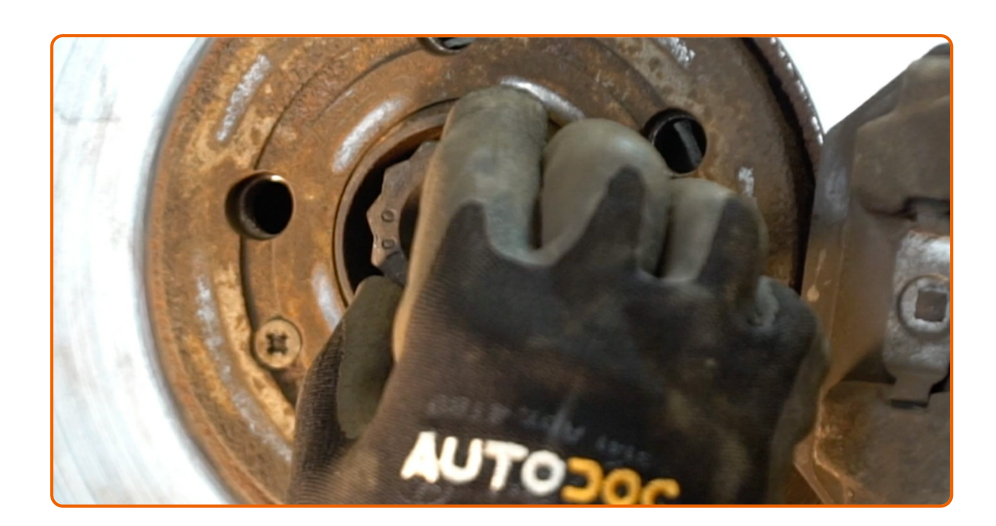
Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a drive socket #18. Use a torque wrench. Tighten it to 105 Nm torque.

56



Tighten the ball joint fastener. Use a drive socket #13. Use a torque wrench. Tighten it to 52 Nm torque.

57



Screw the nut of the drive shaft. Use 12-point socket No.30.



58



Fasten the brake hose on the strut. Use a drive socket #12.

59



Install the transverse stabilizer link.

60



Tighten the fastener connecting the stabilizer link to the shock strut. Use a drive socket #16. Use a torque wrench. Tighten it to 60 Nm torque.

61



Treat all joints of the arm. Treat the shock strut fasteners. Use copper grease.

62



Treat the surface where the brake disc contacts the wheel rim. Use copper grease.

63



Clean the brake disk surface. Use a brake cleaner.

Replacement: suspension strut – VW Polo 9N. Tip:

- After applying the spray, wait a few minutes.

64

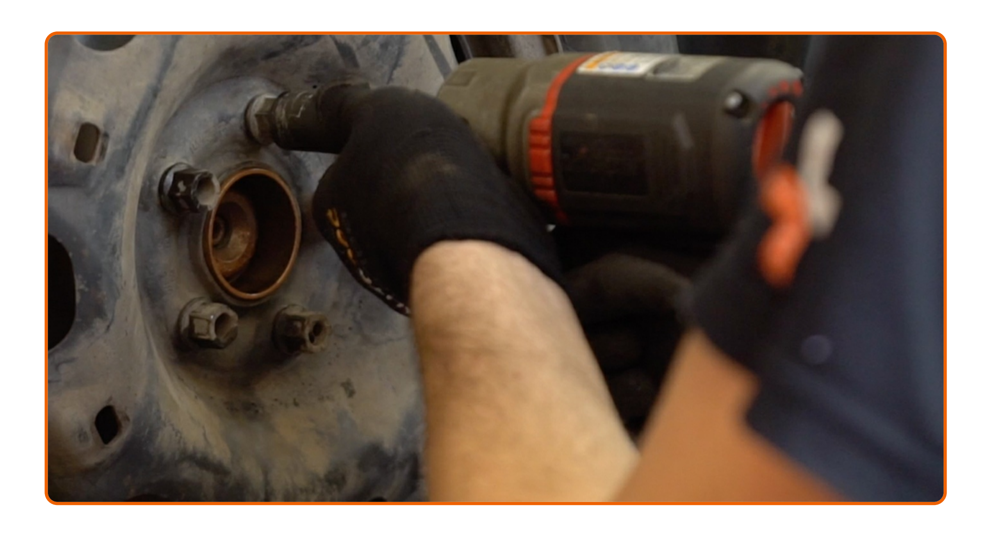


Install the wheel.

AUTODOC recommends:

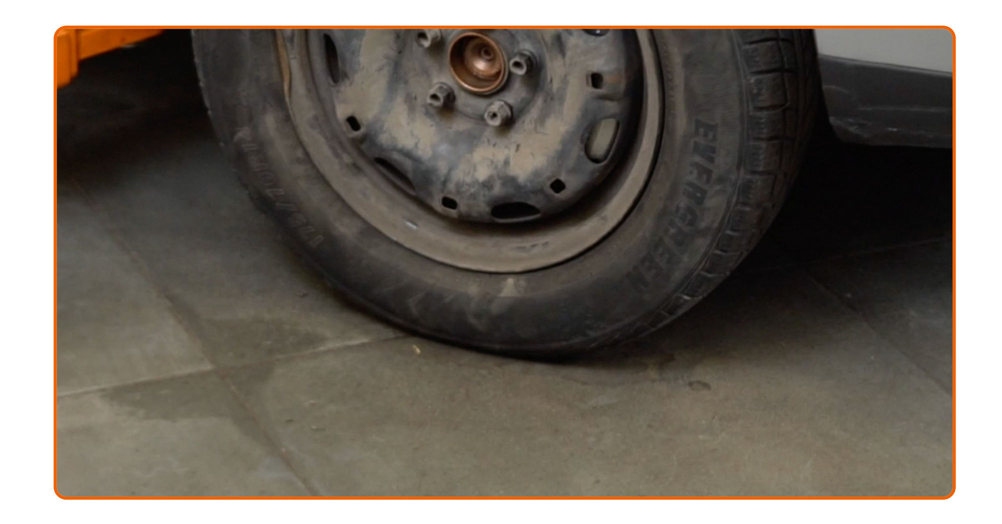
- Important! Hold the wheel while screwing in the fastening bolts. VW Polo 9N

65



Screw in the wheel bolts. Use wheel impact socket #17.

66



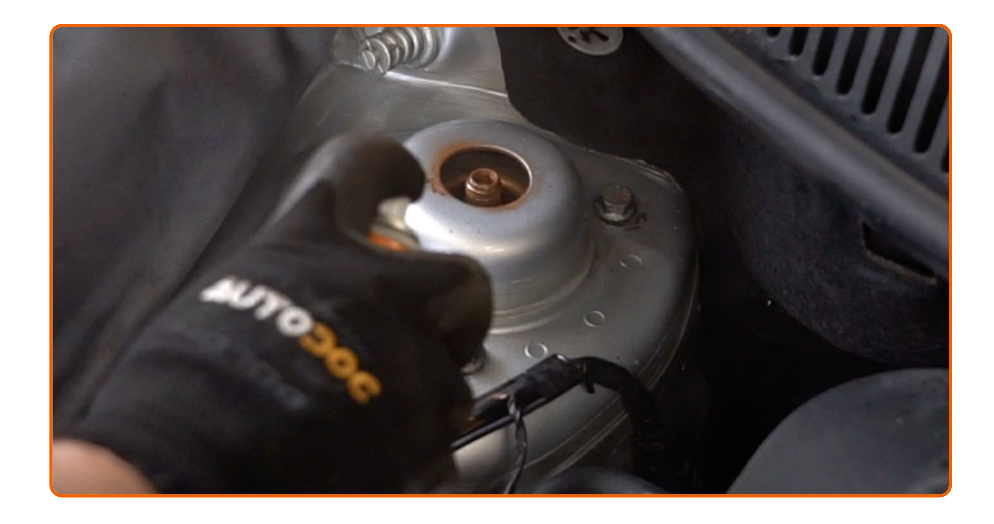
Lower the car.

67



Tighten the upper fastener of the shock absorber strut mount. Use a drive socket #13. Use a torque wrench. Tighten it to 45 Nm torque.

68



Treat the fasteners of the shock strut mount. Use copper grease.

69



Screw the wheel hub lock nut. Use 12-point socket No.30. Use a torque wrench. Tighten it to 165 Nm torque.

70



Tighten the wheel bolts using a criss-cross pattern. Use a torque wrench. Tighten it to 120 Nm torque.

71

Remove the jacks and chocks.

72



Remove the fender protection cover.

73



Close the hood.



DID YOU FIND THESE INSTRUCTIONS HELPFUL?

YES

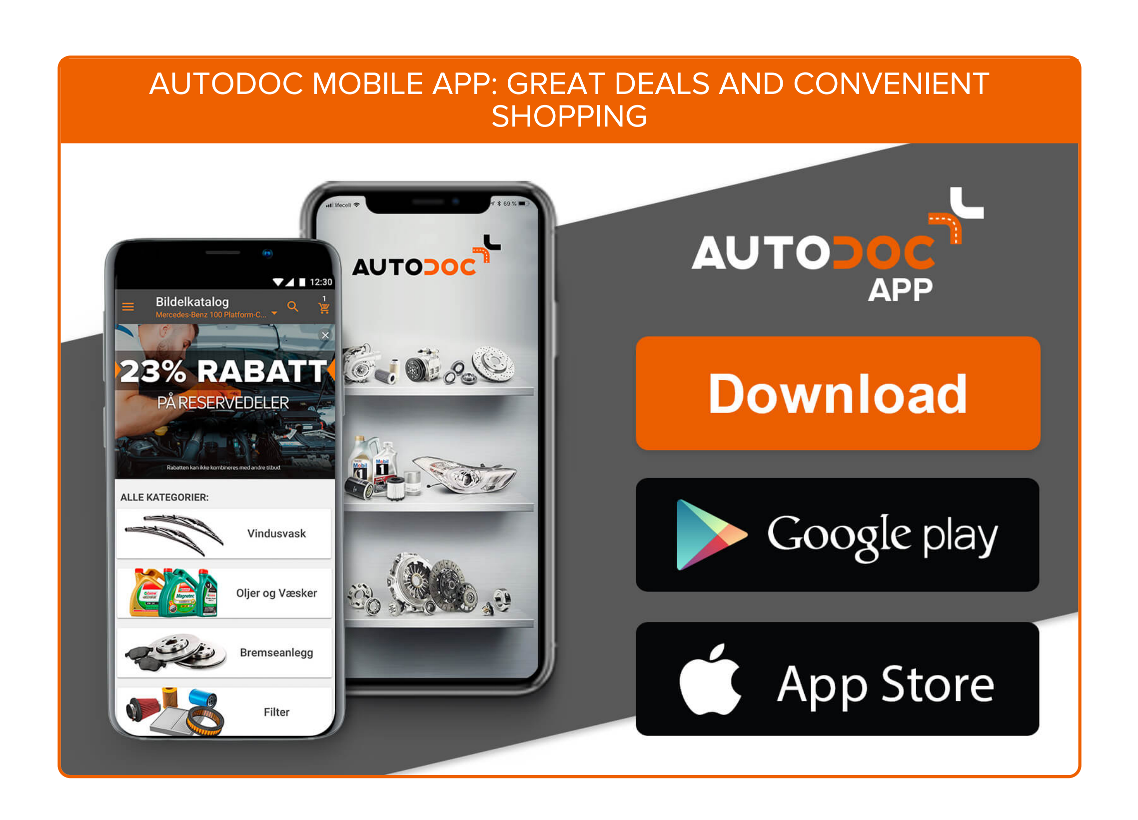
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